

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (cancelled)
2. (cancelled)
3. (cancelled)
4. (cancelled)
5. (cancelled)
6. (cancelled)
7. (cancelled)
8. (cancelled)
9. (cancelled)
10. (cancelled)
11. (cancelled)
12. (cancelled)
13. (cancelled)
14. (cancelled)

15 (previously amended). A process for making a shaped article of manufacture from a sheet or roll of a thermoplastic material, wherein the thermoplastic material consists essentially of a virgin thermoplastic material admixed with a previously foamed thermoplastic material, wherein the virgin material and the previously foamed thermoplastic material are of the same chemical composition, and wherein the previously foamed thermoplastic material is in an amount that ranges from about 5% to about 100% by weight of the thermoplastic material, the process comprising at least the following steps:

(a) pressurizing the sheet or roll of the thermoplastic material with a plasticizing gas under a selected pressure and period of time sufficient to yield a reversibly plasticized thermoplastic material, the plasticized thermoplastic material being impregnated with the plasticizing gas;

(b) depressurizing the plasticized thermoplastic material to thereby desorb some of the plasticizing gas from the plasticized thermoplastic material; and

(c) forming the plasticized thermoplastic material into the shaped article of manufacture, wherein the step of forming occurs before the impregnated plasticizing gas concentration falls below about 0.5 percent by weight of the plasticized thermoplastic material.

16. (previously presented) The process of claim 15 wherein the thermoplastic material consists essentially of polyethylene terephthalate (PET).

17. (previously presented) The process of claim 16 wherein the plasticizing gas is carbon dioxide (CO₂).

18. (previously presented) The process of claim 17 wherein the shaped article has a width to depth ratio of greater than about 1:1.

19. (previously presented) The process of claim 18 wherein the plasticized thermoplastic material has an impregnated plasticizing gas concentration ranging from about 2 to about 9 percent by weight.

20. (previously presented) The process of claim 19 further comprising, prior to the step of forming, a step of heating the plasticized thermoplastic material to a temperature sufficient to cause softening and at least partial foaming, wherein the at least partial foaming generates a plurality of microcells within the plasticized thermoplastic material, and wherein the gas pressure within the plurality of microcells is above atmospheric pressure.

21. (previously presented) The process of claim 20 wherein the step of forming occurs before the gas pressure within the plurality of microcells falls below atmospheric pressure.

22. (cancelled)

23. (previously amended) The process of claim 15 wherein the shaped article of manufacture has an outer skin layer and a foamed interior.

24. (previously amended) The process of claim 15 wherein the shaped article of manufacture is a cup having a wall angle of less than about 35 degrees from vertical.

25. (previously presented) The process of claim 15 wherein the selected pressure ranges from about 0.345 MPa to about 17.2 MPa, and the selected period of time ranges from about 3 hours to about 100 hours.

26. (cancelled)

27. (cancelled)

28. (previously presented) The process of claim 15 further comprising, after the step of forming, a step of additional heating to thereby increase the crystallinity level of the shaped article of manufacture.

29. (cancelled)